

Title (en)

Control system for load sensing hydraulic drive circuit.

Title (de)

Steuervorrichtung für einen lastdruckkompensierten, hydraulischen Antrieb.

Title (fr)

Système de commande pour un entraînement hydraulique indépendamment de la charge.

Publication

EP 0462589 B1 19950412 (EN)

Application

EP 91110046 A 19910619

Priority

JP 16082490 A 19900619

Abstract (en)

[origin: EP0462589A2] A control system for a load sensing hydraulic drive circuit comprises a variable displacement pump (1), at least one hydraulic actuator (2), a flow control valve (3) connected between the hydraulic pump and the actuator, a pump controller (8) for controlling a delivery rate of the hydraulic pump such that a delivery pressure of the hydraulic pump is higher by a first predetermined value DELTA Po than a load pressure of the actuator, and an unloading valve (20) connected between the hydraulic pump and the actuator for holding a differential pressure between the delivery pressure of the hydraulic pump and the load pressure of the actuator less than a second predetermined value DELTA Puo. The control system further comprises a detector (5) for detecting a value associated with a demanded flow rate of the flow control valve, and a control unit (7) for controlling the unloading valve (20) based on the detector output and in view of the predetermined values. <IMAGE>

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IPC 8 full level

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Cited by

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